

User's Manual

dynadock™

TOSHIBA

Leading Innovation >>>

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Regulatory Compliance

FCC Information

FCC notice “Declaration of Conformity Information”

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING: Changes or modifications made to this equipment, not expressly approved by TOSHIBA or parties authorized by TOSHIBA could void the user's authority to operate the equipment.

FCC Conditions

This equipment has been tested and found to comply with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Contact

Address: TOSHIBA America Information Systems, Inc.
9740 Irvine Boulevard
Irvine, California 92618-1697

Telephone: (949) 583-3000

EU Declaration Conformity



This product and - if applicable - the supplied accessories are marked with “CE” and comply therefore with the applicable harmonized European standards listed under the Low Voltage Directive 2006/95/EC and/or the EMC Directive 2004/108/EC.

Responsible for	TOSHIBA EUROPE GMBH, Hammfelddamm 8,
CE-marking:	41460 Neuss, Germany.
Manufacturer:	Toshiba Corporation, 1-1 Shibaura 1-chome, Minato-ku, Tokyo, 105-8001, Japan

The complete official EU CE Declaration can be found at:
<http://epps.toshiba-teg.com/>

Working Environment Legal Text in EU Countries

The Electromagnetic Compliance (EMC) of this product has been verified typically for this product category for a so called Residential, Commercial & Light Industry Environment. Any other working environment has not been verified by Toshiba and the use of this product in these working environments is maybe restricted or cannot be recommended. Possible consequences of the use of this product in non verified working environments can be: Disturbances of other products or of this product in the nearby surrounding area with temporarily malfunction or data loss/ corruption as result. Example of non verified working environments and related advices:

Industrial environment (e.g. environments where a mains voltage of 380V three-phase is being used mainly): Danger of disturbances of this product due to possible strong electromagnetic fields especially near to big machinery or power units.

Medical environment: The compliance to the Medical Product Directive has not been verified by Toshiba, therefore this product cannot be used as a medical product without further verification. The use in usual office environments e.g. in hospitals should be no problem if there is no restriction by the responsible administration.

This product is not certified as a medical product according to the Medical Product Directive 93/42 EEC.

Automotive environment: Please search the owner instructions of the related vehicle for advices regarding the use of this product (category).

Aviation environment: Please follow the instructions of the flight personnel regarding restrictions of use.

Additional environments not related to EMC

Outdoor use: As a typical home/office equipment this product has no special resistance against ingress of moisture and is not strong shock proofed.

Explosive atmosphere: The use of this product in such special working environment (Ex) is not allowed.

WEEE Information

Following information is only valid for EU-member States:

Disposal of products

The crossed out wheeled dust bin symbol indicates that products must be collected and disposed of separately from household waste.

The black bar indicates that the product was placed on the market after August 13, 2005. By participating in separate collection of products, you will help to assure the proper disposal of products and thus help to prevent potential negative consequences for the environment and human health. For more detailed information about the collection and recycling programmes available in your country, please visit our website (<http://eu.computers.toshiba-europe.com>) or contact your local city office or the shop where you purchased the product.



Safety Instructions

Always read the safety instructions carefully:

Do not disassemble, modify, tamper with or repair your product

- Do not attempt to disassemble, modify, tamper with or repair product (including AC adaptor). Disassembly, modification, tampering or repairing the product could cause fire or electric shock, possibly resulting in serious injury.

Please contact an authorized Toshiba service provider for any repair service.

Handling the AC adaptor and power cables/cords or plugs

When handling the power cable/cord, follow these precautions:

- Never tamper with the power cable/cord or plug.
- Never splice or alter a power cable/cord.
- Never bend or twist a power cable/cord.
- Never pull on a power cable/cord to remove a plug from a socket. Always grasp the plug directly.
- Never place heavy objects on a power cable/cord.
- Never run a power cable/cord through a pinch point such as a door or window.
- Never place a power cable/cord near a heat source.
- Never use nails, staples or similar objects to fasten or attach cord in place.
- Never attempt to disassemble or repair an AC adaptor.

Doing any of the above may damage the cables, and/or result in a fire or electric shock, possibly resulting in serious injury.

Attaching the power cable/cord

- Always confirm that the power plug (and extension cable plug if used) has been fully inserted into the socket, to ensure a secure electrical connection. Failure to do so may result in a fire or electric shock, possibly resulting in serious injury.
- Be careful if you use a multiple connector. An overload on one socket could cause a fire or electric shock, possibly resulting in serious injury.

Dust on the power plug connectors or connector base

- If dust gets on the power plug connectors or connector base, turn the power off and disconnect the power plug. Then clean the connector and/or connector base with a dry cloth. Continuing to use the product without cleaning the power plug may result in a fire or an electric shock, possibly resulting in serious injury.

Only use TOSHIBA AC adaptor

- Always use the TOSHIBA AC adaptor that was provided with your product (that may have been provided with your product), or use AC adaptors specified by TOSHIBA to avoid any risk of fire or other damage to the product. Use of an incompatible AC adaptor could cause fire or damage to the product possibly resulting in serious injury. TOSHIBA assumes no liability for any damage caused by use of an incompatible adaptor or charger.

Use correct power source

- Never plug the AC adaptor into a power source that does not correspond to both the voltage and the frequency specified on the regulatory label of the unit. Failure to do so could result in a fire or electric shock, possibly resulting in serious injury.

Only use approved power cables/cords

- Always use or purchase power cables/cords that comply with the legal voltage and frequency specifications and requirements in the country of use. Failure to do so could result in a fire or electric shock, possibly resulting in serious injury.

Do not handle the power plug with wet hands

- Never attempt to connect or disconnect a power plug with wet hands. Failure to follow this instruction could result in an electric shock, possibly resulting in serious injury.

Choking hazards

- Never leave small parts such as covers, caps and screws within the reach of infants or small children. Swallowing a small part may cause choking and suffocation resulting in death or serious injury. If a part is swallowed, immediately take appropriate emergency action and consult a doctor.

Avoid liquids, moisture and foreign objects

- Never allow any liquids to spill into any part of your product, and never expose the product to rain, water, seawater or moisture. Exposure to liquid or moisture can cause electric shock or fire, resulting in damage or serious injury. If any of these eventualities should accidentally occur, immediately:

1. Turn off the **product**.
2. Disconnect the AC adaptor from the power plug socket and **product**.

Do not turn on the power again, until you have taken the **product** to an authorized service center. Failure to follow these instructions could result in serious injury or permanent damage to the **product**.

Never place your product in locations with excess heat

- Never place your product where it will be exposed to excess heat, such as in direct sunlight, an unventilated vehicle or near a heater. This may result in a system failure, malfunction, loss of data or damage to the product.

Never place your product in a location with extremely low temperatures

- Never place your product in a location where it will be exposed to extremely low temperatures. This may result in a system failure, malfunction or loss of data.

Never subject your product to sudden temperature variations

- Never subject your product to sudden temperature variations. This may result in condensation, causing a system failure, malfunction or loss of data.

Never place your product or AC adaptor on a heat sensitive surface

- Never place your product or AC adaptor on a wooden surface, furniture, or any other surface that could be marred by exposure to heat since the product base and AC adaptor's surface increase in temperature during normal use.
- Always place your product or AC adaptor on a flat and hard surface that is resistant to heat damage.

Never operate your product during a thunderstorm

- Never operate your product on AC power during a thunderstorm. If you see lightning or hear thunder, immediately turn off the product. An electric surge caused by the storm, may result in a system failure, loss of data or hardware damage.

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March 2008, Rev1.0

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Precautions for Microsoft® Windows® XP, Microsoft® Windows Vista®

The Fn + F5 functionality detailed in the electronic User's Guide for your TOSHIBA computer only controls the internal video controller of your computer.

The TOSHIBA dynadock utilizes an advanced video graphics controller to display the video on the external monitor connected to it. However, due to USB 2.0 transfer speed limitations, some or all portions of DVD playback may appear slow or choppy. This is not a malfunction of the dynadock. Move the video playback from the external monitor to your computer display for optimal video performance when viewing DVDs. On Windows® XP systems, DVDs may not display correctly on an external monitor. Use your computer's built-in monitor to view DVDs.

This product does not support 3D programs.

In some software application programs that utilize certain directdraw commands such as some 2D-Games, the display on the external monitor connected to the dynadock will not be supported. If you want to play these games in fullscreen, we suggest you disconnect the dynadock.

This product is unable to enter full screen DOS mode when using the external monitor connected to the dynadock.

The internal speakers on your computer maybe disabled when the dynadock is connected. See *Select Audio Device* section for further information.

The sound may be distorted or delayed when you play some media files. If it couldn't be played normally, we suggest you play it without connecting the dynadock.

Depending on your computer system, you may receive a warning message if the external monitor connected to your dynadock is used as your primary display.

USB, CPU resources, mouse movement and other devices may be affected when playing movies or transferring large amounts of data via the dynadock.

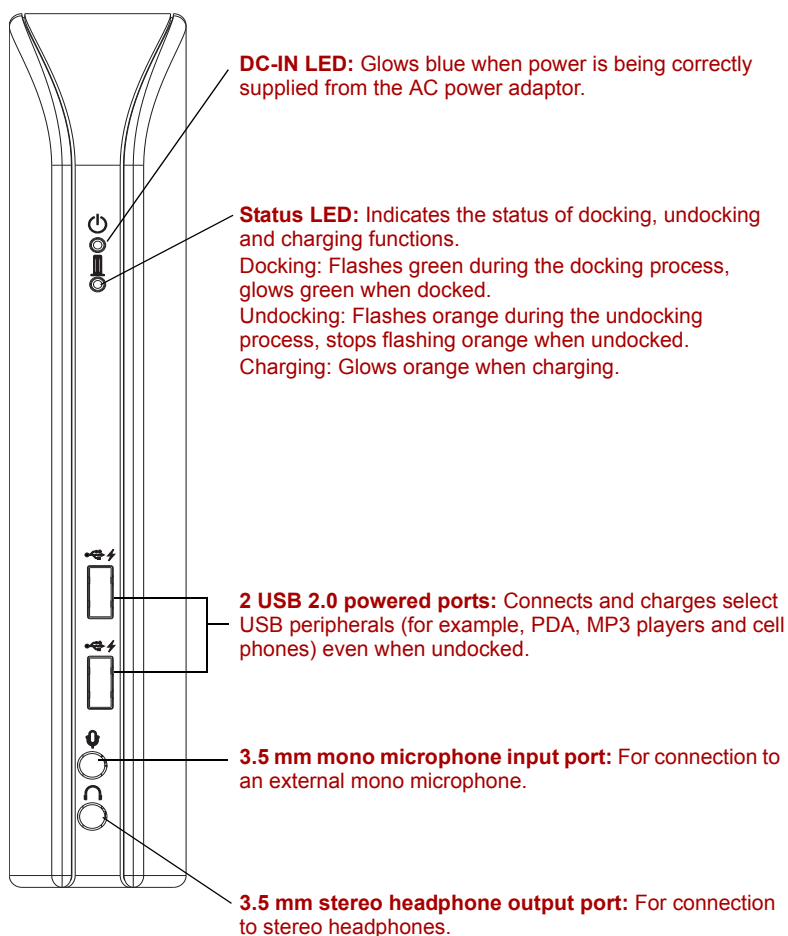
Introduction

Thank you for purchasing the Toshiba dynadock, the universal docking station that enables you to connect your desk space peripherals through one USB cable to just about any Windows-based notebook. The dynadock is software upgradable to enable you to keep your dynadock in line with technological advances. Visit dynadock.com for the latest software driver support updates.

Features

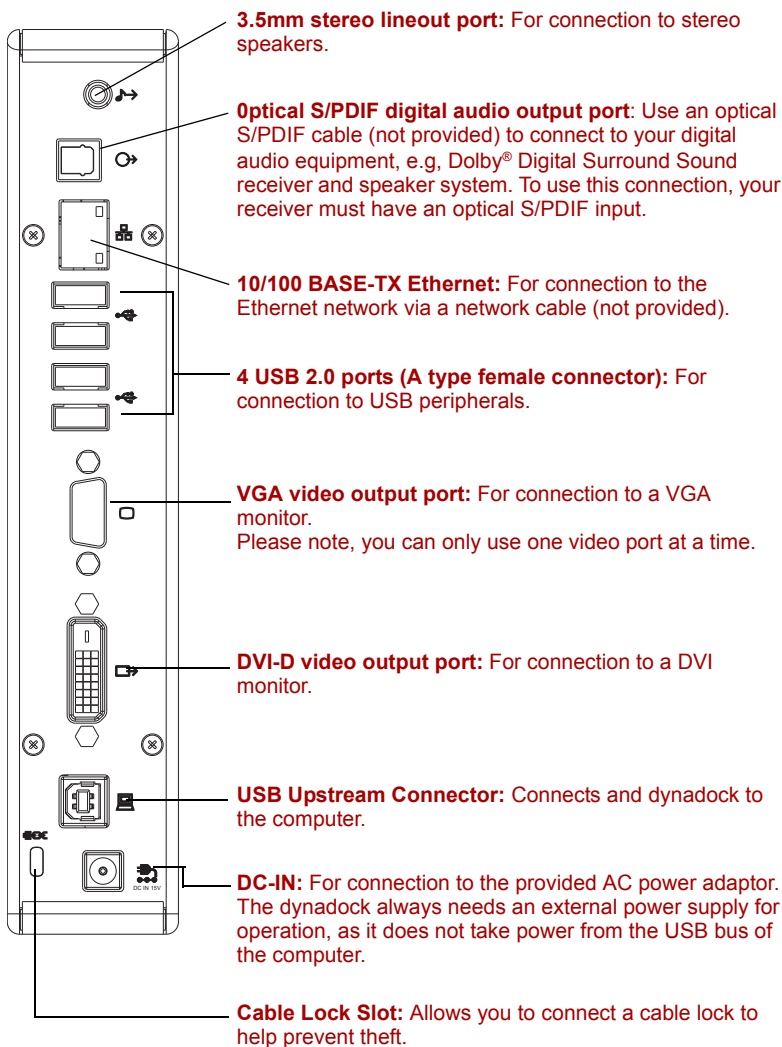
- Single USB cable connection to your computer
- Upright slim design saves desktop space
- Easily accessible ports located on the front
- Supports resolution up to 1920 x 1200 VESA CVT standard (Video Electronics Standards Association Coordinated Video Timing) video on external monitor
- Hot swappable; you can add or remove most devices without rebooting the computer
- Virtual 7.1 channel surround sound
- Includes all video and audio drivers to get you started. Please visit www.dynadock.com for the latest software driver updates
- Includes TOSHIBA dynadock Utility to customize dynadock settings
- Charges your USB peripherals with the front powered USB ports
- The undock button allows you to easily and safely dock and undock the dynadock from your computer.

Front panel



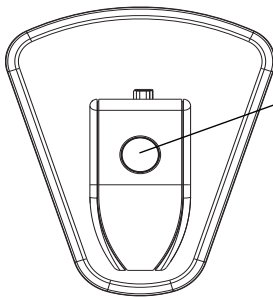
(Sample Illustration) Indicators and connectors on the front of the dynadock

Back panel



(Sample Illustration) Connections on the back of the dynadock

Top panel



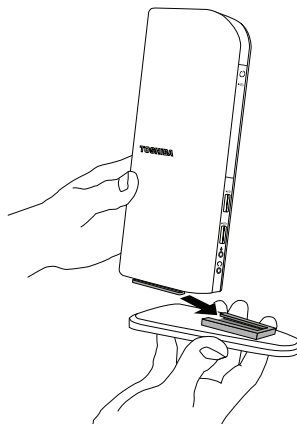
Undock button: Controls dock, undock and charging functions. For more detailed information see the *Undock button* section on page 21.

Computer Requirements

- 1.2GHz or higher processor. Intel® Pentium®/Celeron® family, or AMD K6®/AMD Athlon™/AMD Duron™ family, or compatible processor recommended (Intel® Core™ 2 Duo 2.0 GB or higher processor recommended for optimal video performance)
- 512 MB memory or higher (1 GB memory or higher recommended)
- USB 2.0 port
- 30 MB of available disk space
- Microsoft® Windows® XP (32bit edition), with SP2/SP3 and Microsoft® Windows Vista® (32bit and 64bit edition), with SP1

Assembly

Slide the dynadock onto the base as shown below.



(Sample Illustration) Assembling the dynadock and base

Installation

Installing the Drivers

1. Insert the provided Installation CD into your optical disc drive. It will run automatically and the dialog box will appear.

If the auto-run function is disabled on your system, the program will fail to load automatically. Please open the disk in Windows® Explorer, and double click “**AutoRun.exe**”.

NOTE: You may need to temporarily disable spyware or anti-virus programs while installing the drivers. It is also recommended that all other applications are closed, as you will need to restart your computer after the drivers are installed.

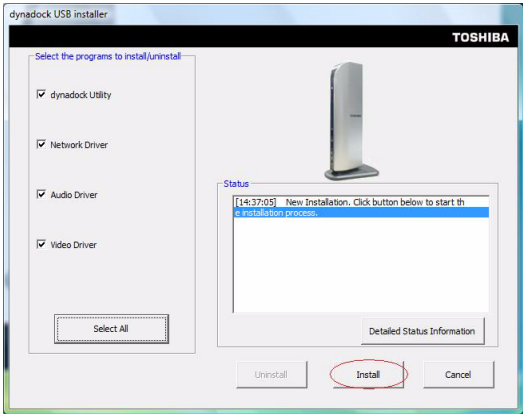
You need administrator privilege to install/uninstall the utility and drivers.

2. Click on “**Setup**” to open the dynadock USB Installer. The dynadock USB installer enables you to easily install, uninstall or update the driver.



(Sample Illustration) dynadock Install Menu

3. Click the **Install** button to install the selected programs. The Status area in the right center of the screen indicates the drivers installed.



(Sample Illustration) dynadock USB Installer

The following drivers are installed during the installation process:

Driver Type	Driver Name
■ dynadock Utility	-dynadock Utility II
■ Network Driver	-AX88772A & AX88772
■ Audio Driver	-USB Multi-Channel Audio Device
■ Video Driver	-DisplayLink Core Software/ TOSHIBA dynadock

In addition, these icons are added to the Notification Area / System Tray:



Toshiba dynadock Utility



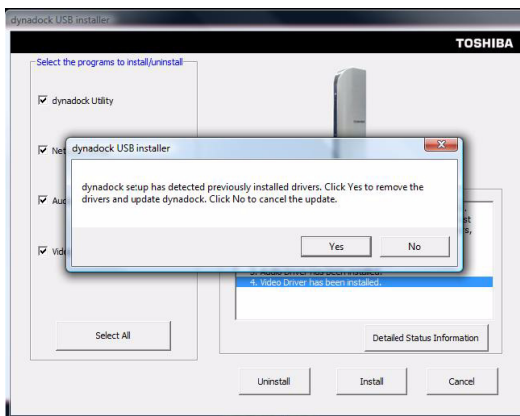
USB Multi-Channel Audio Device



DisplayLink Core Software

4. Follow the on-screen directions to finish the installation.

If there's any previous version installed, dynadock setup package will auto detect the installed version, and pop up the following screen. Please follow the on-screen directions to finish the installation.



(Sample Illustration) Updating Screen

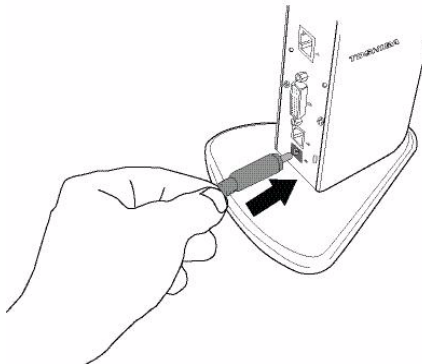
Background Utility Program

After the dynadock utility is installed and the computer is restarted, a program named 'TOSDockApp.exe' will run automatically in the background. It can be viewed in the Windows Task Manager. The program detects the insertion and removal of the dynadock.

NOTE: The utility program does not impact any other programs on your computer. Please do not turn it off.

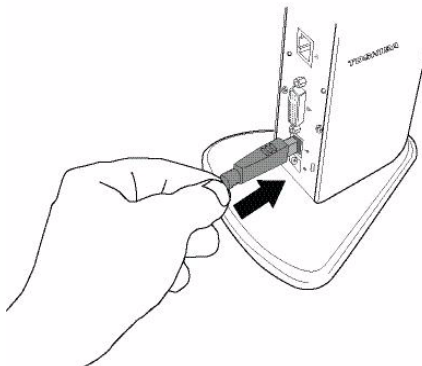
Connecting the dynadock™ to the Computer

1. Plug the AC adaptor cord/cable into the DC-IN on the back of the dynadock.



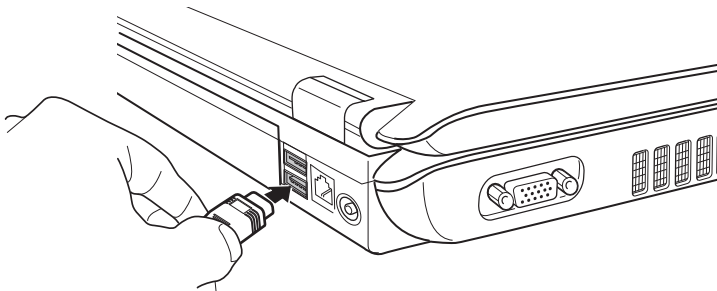
(Sample Illustration) Connecting the AC adaptor cord to the dynadock

2. Connect the AC Power Adaptor with the AC power cord/cable, and then connect the AC power cord/cable to a live electrical outlet. The power indicator on the front panel glows blue when the dynadock is powered on.
3. Plug the square end of the USB cable into the USB upstream port on the back of the dynadock.



(Sample Illustration) Connecting the USB cable to the dynadock

4. Plug the other end of the USB cable into an available USB 2.0 port on your computer.



(Sample Illustration) Connecting the USB cable to your computer

NOTE: Some computers may not immediately recognize the dynadock is connected upon start-up. This is not malfunction of the dynadock, it is related to the computers BIOS start up sequence. If this occurs, follow the steps below:

1. Turn off the computer.
2. Disconnect the dynadock from the computer.
3. Turn the computer back on.
4. Connect the dynadock to the computer once the computer's operation system has loaded.

Please note these steps may need to be repeated every time you start the computer.

Uninstalling

To remove the dynadock Utility and all the drivers from your computer, please follow the following procedures.

NOTE:

- *Before starting the steps below, you must eject the dynadock™ from your computer using the undock button or TOSHIBA dynadock™ utility icon on your Notification Area/System Tray.*
- *Disconnect the dynadock™ from the computer. Any devices connected to the dynadock™ will be disabled.*
- *Close all other programs and applications.*
- *Do not use any other previous dynadock CD.*

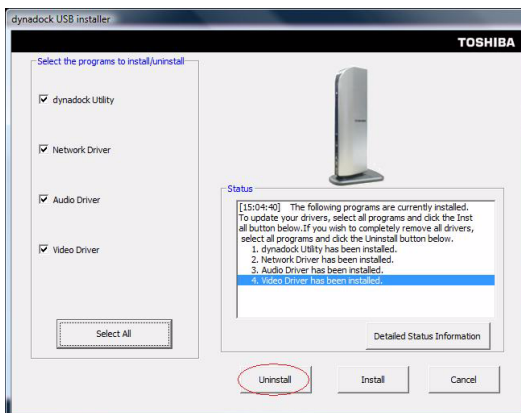
1. Open the uninstall screen by one of the following two ways.

- Click **Start > All programs > dynadock USB > Uninstall dynadock USB**, or
- Insert the provided Installation CD into your optical disc drive. It will run automatically and the dialog box will appear.



(Sample Illustration) Initial Screen

- Click on **“Setup”** on the above screen. Then click **Uninstall** button to start to uninstall the programs you select.



(Sample Illustration) Uninstalling Screen

- Follow the on-screen directions to finish the uninstall.

Using the dynadock™

You may connect devices to the appropriate ports on the dynadock while your computer is running. A slight delay and display flickering is normal before the computer recognizes the new device.

NOTE: You can also uninstall the dynadock drivers from the control panel.

Undock button

The Undock button enables you to easily and safely dock and undock the dynadock to/from your computer and provides other convenient functions.

When the dynadock is docked to your computer

Press the Undock button once to undock your computer and the dynadock. To reconnect the dynadock and your computer, press the Undock button again and it will reconnect. When you press the Undock button the Status LED will flash orange during the undocking process and flash green during the docking process as listed below:

Docking: Flashes green during the docking process, glows green when docked.

Undocking: Flashes orange during the undocking process, stops flashing orange when undocked.

Charging: Glows orange when charging.

When the dynadock is not connected to your computer, or the computer's power is off

Press the Undock button once to put the dynadock into charging mode. The Status LED will glow orange when charging. Press the Undock button again to stop the charging process. This applies to both USB powered ports on the front of the dynadock. These ports charge select USB peripherals (for example, PDA, MP3 Players and Cell phones) even when undocked.

NOTE: When the dynadock is not connected to your computer, or the computer's power is off, only two front USB ports have the charge function. The charge and non-charge function depends on the charge mode setting in the dynadock utility. See page 38 for setting the charge mode. Not all devices can be charged through these ports.

USB 2.0 Ports

Connect any USB device to one of the dynadock's six USB ports.

- If your USB device, such as a printer or optical drive, etc., came with its own AC adaptor, make sure that it is plugged into the device and a live electrical outlet.

Ethernet Port

Connect one end of a network cable (not provided) to the Ethernet port (RJ-45) on the dynadock and the other end to your network for high performance network access. To configure the network properties of the Ethernet adapter:

In Windows Vista®, select **Start > Control Panel > View network status and tasks > Manage network connections**.

In Windows® XP, select **Start > Connect to > Show all Connections**.

In the **Network Connections** folder, double-click the connection icon for the dynadock's Ethernet adapter, which is indicated by **ASIX AX88772A USB2.0 to Fast Ethernet Adapter**. This will open the **Local Area Connection Properties** window for you to configure the network settings as required according to your network environment. If you are unsure about the settings, consult your network administrator for assistance.

NOTE: The LAN port does not support wake-up-on-LAN. The Local Area Connection icon in the System Tray/Notification Area will not show a connection. Open "Network Connections" to view the Ethernet Connection.

Microphone Port

To connect a microphone, plug the 3.5mm microphone jack into the microphone input port.

Headphone Port

To connect headphones, plug the 3.5mm headphone jack into the headphone port. After installing the provided audio software, a **USB Multi-Channel Audio Device** utility is installed in your computer. It can be accessed by double-clicking the **USB Multi-Channel Audio Device** icon on the system tray /notification area. (The icon may be hidden if the Windows® operating system recognizes it as inactive.)



(Sample Image) USB Multi-Channel Audio Device

NOTE: Once dynadock™ is installed, the sound on the computer will be disabled, enabling you to connect external speakers. For information on how to re-enable sound through your computer see the “Select Audio Device” section on page 40. The USB Multi-Channel Audio Device is not the default playback device after installation.

Stereo lineout port

To connect external stereo speakers plug the 3.5mm speaker jack into the stereo lineout port.

The utility comes with a friendly graphic user interface to optimize your audio effects. Most of the settings can be adjusted using the available sliders, images or buttons. Just make the adjustments to suit your personal preferences.

NOTE: You can connect the headphone or the speaker to the headphone port, however the lineout port has the audio higher-quality for the external speaker.

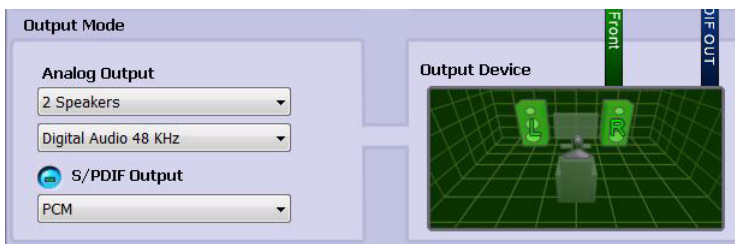
Using Virtual 7.1CH Function on 2CH Speakers/headphones

The audio output port is used to connect stereo speakers or headphones. Although 2CH speakers may be connected, a virtual 7.1CH surround sound experience is possible using the software’s virtual multi-channel function.

To enable the virtual 7.1CH audio function on 2CH speakers or headphones:

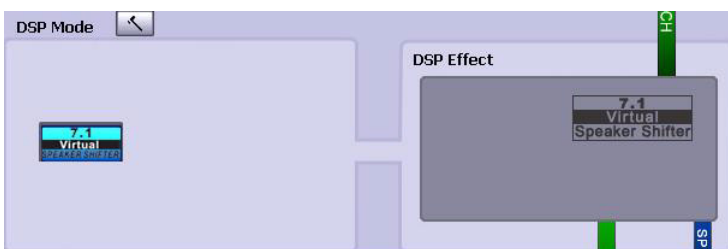
Windows Vista® Operations

1. In the **Analog Output** section, select **headphone**.



(Sample Image) Select headphone

2. On the panel, click the **7.1 Virtual SPEAKER SHIFTER** button to enable the virtual multi-channel function. The icon will turn blue and a mark will be shown in the rightside window when selected.



(Sample Image) 7.1 Virtual SPEAKER SHIFTER button

3. The button next to **DSP Mode** string allows you to enter the **SHIFTER control** window.



(Sample Image) DSP button

Click on the **Virtual Speaker Shifter** button to open the Shifter controls. See page 26 for the SHIFTER Control window sample image.

NOTE: In order to use the S/PDIF function in Windows Vista®, select **Start > Control Panel > Hardware and Sound > Sound**. In the **Playback** tab, set the Digital Output as default device.

Windows® XP Operations

1. In the **Analog Output** section, select **headphone icon**.



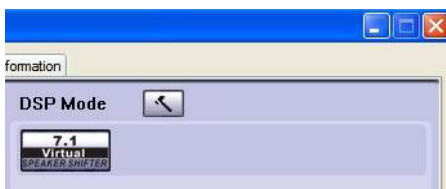
(Sample Image) Select headphone

2. On the panel, click the **7.1 Virtual SPEAKER SHIFTER** button to enable the virtual multi-channel function. The icon will turn blue when selected.



(Sample Image) 7.1 Virtual SPEAKER SHIFTER button

3. The button next to **DSP Mode** string allows you to switch between the **SHIFTER control** and **basic control** window.



(Sample Image) DSP button

Click on the **Virtual Speaker Shifter** button open the Shifter controls. See page 26 for the SHIFTER Control window sample image.

Using the Virtual Speaker Shifter Controls for both Windows® XP and Windows Vista®

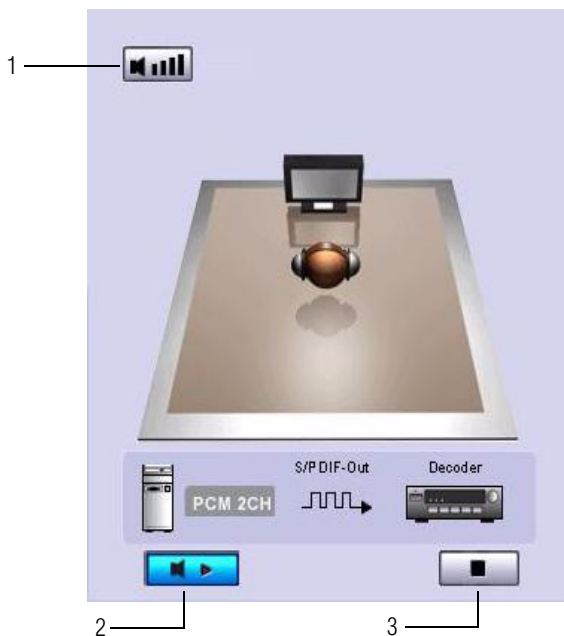
1. Volume control
2. Rotate all the virtual speakers clockwise
3. Rotate all the virtual speakers counterclockwise
4. Manually rotate all the virtual speakers
5. Manual shifting function. You can drag a specific virtual speaker to the preferred position to enhance an individual channel output.
For example, a low-volume center (for dialog) can be enhanced by being dragged closer to you
6. Reset the speakers to default settings



(Sample Image) Shifter Controls

Using the Basic Controls - Windows® XP only

1. To adjust/reset the volume of the left and right channel of your speakers/headphones
2. To test the left and right channel of your speakers/headphones
3. Stops the audio test



(Sample Image) Basic controls screen

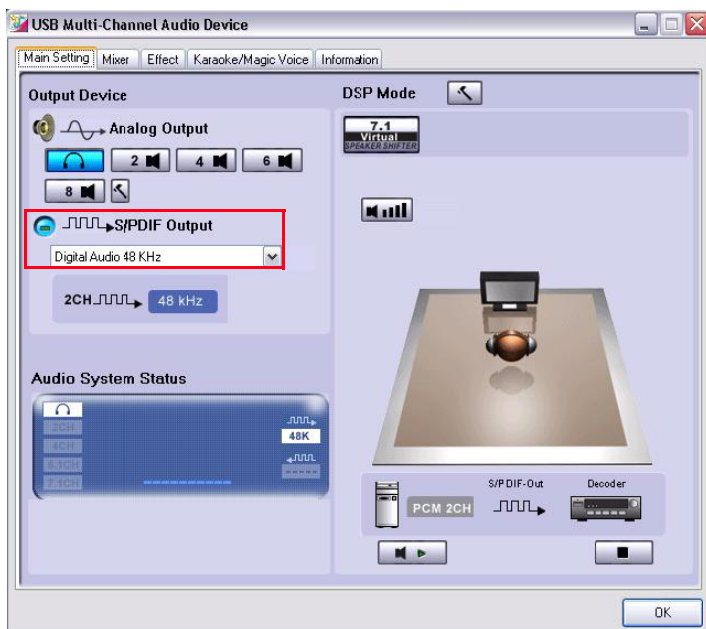
Digital S/PDIF Output - Windows® XP only

Using the S/PDIF output function you can directly output the digital sound source from the computer to your home theater equipment without loss of sound quality.

To experience true digital sound quality:

1. Make sure your DVD content supports Dolby® Digital or DTS format.
2. Make sure your external decoder/AV receiver that connects to the dynadock supports Dolby® Digital or DTS decoding capability.
3. Turn on the S/PDIF function in the **USB Multi-Channel Audio Device** utility.

On the **Main Setting** tab of the utility, click the button next to the **S/PDIF Output** string and select **Digital Audio 48KHz** from the drop-down menu.



(Sample Image) S/PDIF selection

4. Configure the **Audio Output** setting of your DVD playback software to use S/PDIF. (Access the software's setup or configuration panel to locate the Audio Out item.)

Video Port (VGA and DVI)

Connection

The dynadock has both the following types of video ports:

VGA – for connection to VGA interface monitors

DVI – for connection to DVI interface monitors

NOTE: *Only one monitor can be connected to the dynadock.*

Although the ports and video drivers are different, the connection and setup is the same.

Connect the monitor cable (not provided) to the video output port on the dynadock and the external monitor. This cable can be connected and disconnected any time without disconnecting the dynadock from the USB port on your computer.

NOTE: *The dynadock should be connected to a USB 2.0 port for optimal video performance. The dynadock will work when connected to a USB1.1 port, however video performance will be compromised. The USB connector may be plugged and unplugged while the dynadock is on.*

You can customize the video settings of the dynadock. See *Adjusting Video Settings* for more information.

Viewable screens

The dynadock video drivers give you the option of viewing a total of three screens.

1. The screen on the notebook
2. An external monitor connected to the video port on the notebook (if available)
3. An external monitor connected to the dynadock

NOTE: *The external monitor connected to the dynadock may be identified as either “2” or “3” on the Windows® Display Properties screen (depending on your model) although there may not be a total of 3 viewable screens.*

Video Modes

The dynadock video output works in two modes:

- Mirror Mode
- Extended Mode

Mirror Mode

This mode “mirrors” – creates an identical display – from your computer screen to the external monitor. This is useful, for example, if you want to use a larger desktop monitor rather than the computer screen. In Mirror Mode, the dynadock automatically selects the settings (screen resolution, color quality and refresh rate) for the external monitor that will allow the best resolution based on your computer’s settings.

Extended Mode

Extended Mode lets you split your display across multiple monitors. This provides a number of advantages to increase productivity:

- View your large spreadsheets across two or three screens with display continuity.
- Multitask more effectively without overlapping windows
- Compare two documents simultaneously across two/three screens
- View videos/TV on one screen and reviews on the other

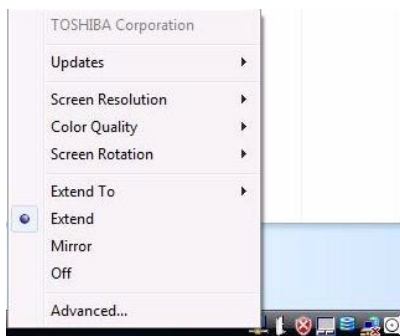
Set up the dynadock for Extended Mode

1. Click or right-click the icon in the system tray/notification area.



(Sample Image) system tray/notification screen

2. Select “Extend” from the menu.



(Sample Image) display mode change screen

NOTE: Depending on your computer and operating system, you may need to “uncheck” the “Extend my Windows desktop onto this monitor” box in Display Properties when the dynadock is disconnected.

Switching from Extended Mode to Mirror Mode

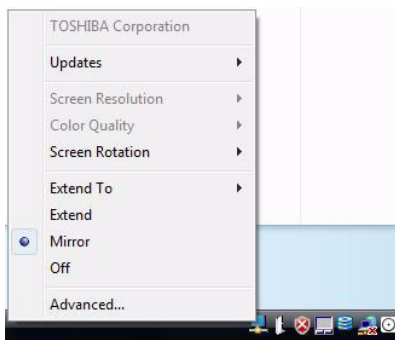
Follow these steps to change the video output to Mirror Mode:

1. Click or right-click the icon in the system tray/notification area.



(Sample Image) system tray/notification screen

2. Select "Mirror" from the menu.



(Sample Image) display mode change screen

NOTE: You can also use the Windows® Display properties screen to switch between Extended Mode and Mirror Mode.

Adjusting Video Settings

There are three components that make up the screen mode:

Resolution: In common usage, this refers to the number of pixels displayed on the screen horizontally and vertically.

Color Depth: This defines the number of different colors that can be shown on the screen at the same time.

Refresh rate: Measures the speed that the entire screen is rescanned. Higher frequencies reduce flicker.

Below is a list of refresh rates supported at various resolutions and color depths for the VGA and DVI component:

Color Depth	Resolution					
	640x480	800x600	1024x768	1280x768	1280x960	1280x1024
16 bit	60 72 75	56 60 72 75 85	60 70 75 85	60 75 85	60 85	60 75 85
32 bit	60 72 75	56 60 72 75 85	60 70 75 85	60 75 85	60 85	60 75
	1280x800	1440x900	1600x1200	1680x1050	1920X1200	
16 bit	60	60	60	60	60	
32 bit	60	60	60	60	60	

Note that interlaced modes are not supported and the resolutions listed above may not be supported by your monitor.

Additional modes may be offered, depending upon the connected monitor, but these are not currently guaranteed.

If the monitor does not advertise the supported modes, the VGA or DVI component will choose a set of common screen modes.

If cloning the primary display, the VGA or DVI component will try to use the preferred monitor mode. In some cases, this may not be the most appropriate mode for the mirrored desktop. It is recommended that the primary display resolution be changed to closer match the default resolution of the dynadock monitor.

NOTE: For more information on supported modes, be sure to check the documentation supplied with your monitor.

Initial Use

When the VGA or DVI component first starts, it will extend the primary monitor. Changes to the screen mode and VGA or DVI component operation mode can be made under the Windows display properties.

If no output is seen on the monitor connected to the VGA or DVI component, it may be in a mode which cannot be displayed by the monitor. This can happen if the monitor does not report its supported modes to the VGA or DVI component. Reduce the resolution of the primary display, and in turn the resolution of the VGA or DVI component display until an image is shown.

NOTE: Placing the monitor into an unsupported mode for long periods can damage it.

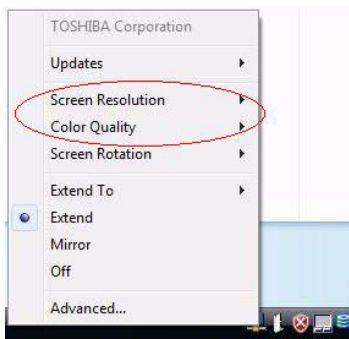
Adjusting the Video Settings for the monitor connected to the dynadock

1. Click or right-click the icon in the system tray/notification area.



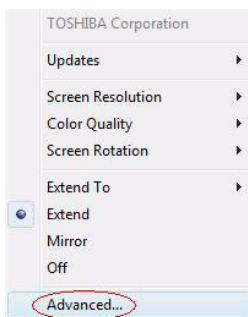
(Sample Image) system tray/notification screen

2. To change the screen resolution or color quality, select those options on the screen. Be sure to select one of the supported resolutions and color quality numbers in the table above. For an external monitor, you can also select any resolution or color quality supported by that monitor.



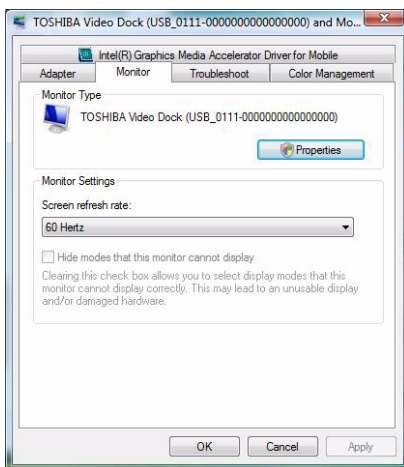
(Sample Image) display mode change screen

3. To change the refresh rate, select “Advanced” from the menu, this will open the Windows® Display Properties.

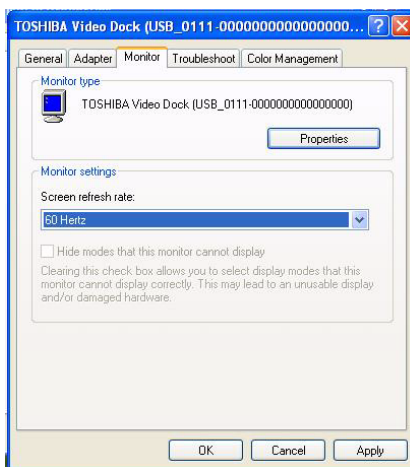


(Sample Image) display mode change screen

4. On the Display Settings screen, click **Advanced Settings (Windows Vista)/Advanced (Windows XP)** and then click **Monitor**.



Windows Vista®



Windows® XP

(Sample Image) display setting screen

5. Select a refresh rate from the **Screen refresh rate** pull down list. Be sure to select a refresh rate that is supported for the resolutions and color depth settings, as indicated in the table above. Then click **OK**.
6. Click **OK** to close the **Display Settings** screen.

If you use multiple dynadocks with a single computer, for example, one at work and one at home, the video settings for each dynadock are saved when you disconnect the computer. This enables you to have your dynadock set up with different video settings for different locations. The settings will be retained each time you use the dynadock with your computer.

How Standby/Sleep or Hibernation Mode Affects Devices Attached to the dynadock™

External Monitors

The external monitor connected to the dynadock will go blank if the computer goes into Standby/Sleep or Hibernation Mode.

When in Mirror Mode, the external monitor keeps the same settings it had before the computer went into Standby/Sleep or Hibernation Mode once the computer returns to an active state

When in Extended Mode, windows that were previously on the external monitor will **not** move back to that external monitor once the computer returns to an active state

Also, if the external monitor is in Extended Mode and the computer requires a login after Standby/Sleep or Hibernation Mode, the login screen appears on the primary computer monitor, not the external monitor. This is consistent with Windows® Operating System standards.

Other Devices

If another device is connected to a port on the dynadock and the computer goes into Standby/Sleep or Hibernation Mode, that device will not function. For example, if you are using the Ethernet port for high-speed network access, network access will not be available until the computer returns to an active state.

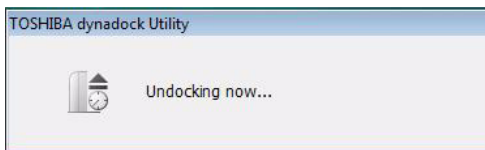
Using the dynadock™ Utility

Eject Dock

When the dynadock is connected to your computer, the TOSHIBA dynadock Utility can remove all devices with one-click. You can eject the dock by using one of the following two options:

Option 1- pressing the undock button:

1. Press the undock button on the top panel once, and the dynadock will undock.



(Sample Image) Undocking screen

Note: The status LED will flash orange. When the undocking is finished, the status LED will stop flashing. Pressing this button again will re-dock the computer to the dynadock.

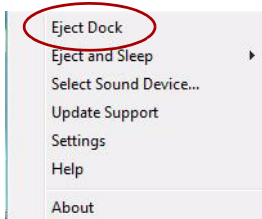
Option 2- clicking the icon in the system tray/notification area:

1. Click or right-click the icon in the system tray/notification area.



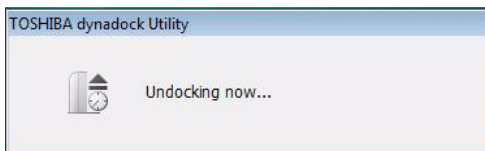
(Sample Image) system tray/notification screen

2. Select “Eject Dock” from the menu.



(Sample Image) Eject Dock screen

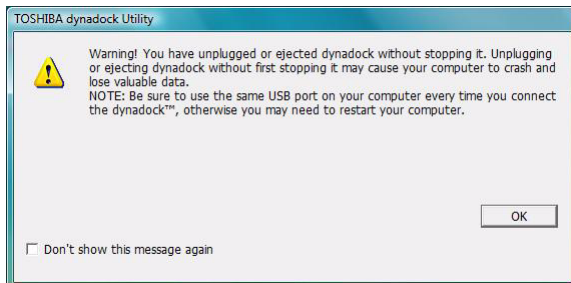
3. The dynadock will undock.



(Sample Image) Undocking screen

If the dynadock is removed from the system successfully, the icon in the system tray/notification area will disappear.

If the dock is removed unexpectedly, the software can detect this event and will give the user an “Unexpected remove” dialog box as shown below.



(Sample Image) Warning message

CAUTION: It is important that you correctly disconnect the dynadock by following the steps above. Failure to do so may cause data loss and/or damage to your computer and devices connected through the dynadock.

Eject Dock and Sleep

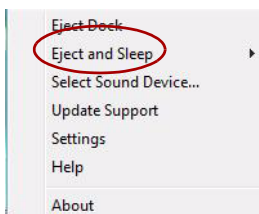
When the dynadock is connected to your computer, the TOSHIBA dynadock Utility can remove all devices and let the system sleep instantly with one-click. Please follow these steps:

1. Click or right-click the icon in the system tray/notification area.



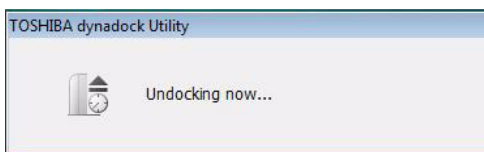
(Sample Image) system tray/notification screen

2. Point to “Eject and Sleep” and select “Hibernation” or “Standby” from the sub menu.



(Sample Image) Eject and Sleep screen

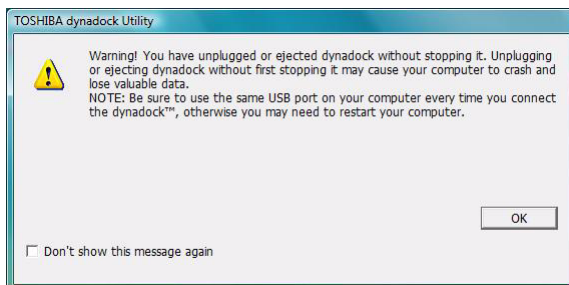
3. Wait before removing the dynadock from the system.



(Sample Image) Undocking screen

If the dynadock is removed from the system successfully, the icon in the system tray/notification area will disappear.

If the dock is removed unexpectedly, the software can detect this event and will give the user an “Unexpected remove” dialog box as shown below.



(Sample Image) Warning message

4. After the dynadock is removed from the system successfully, the system will go into sleep mode.

CAUTION: It is important that you correctly disconnect the dynadock by following the steps above. Failure to do so may cause data loss and/or damage to your computer and devices connected through the dynadock.

Changing the dynadock Utility Settings

The TOSHIBA dynadock Utility setting program allows users to change the “Eject Dock” setting.

Opening the Setting Dialog box

1. Click “**Start**” and then click “**Control Panel**”.
2. Double-click the “**TOSHIBA dynadock Utility**” icon.

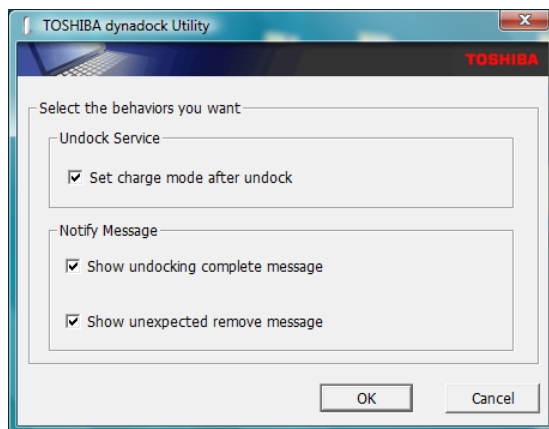
Note: If you can not find the “TOSHIBA dynadock Utility” icon, please click “classic view” on the left of the control panel window.

3. Setting dialog will appear.

Setting charge mode

This will allow users to set the charge mode after the dynadock is disconnected from computer or the computer's power is turned off.

- Check the “**Set charge mode after undock**” box to enable the USB charge function when the dynadock is disconnected from the computer or the computer's power is off. When the charge function is active, the Status LED will glow orange. You can press the undock button to switch between charge and non-charge.



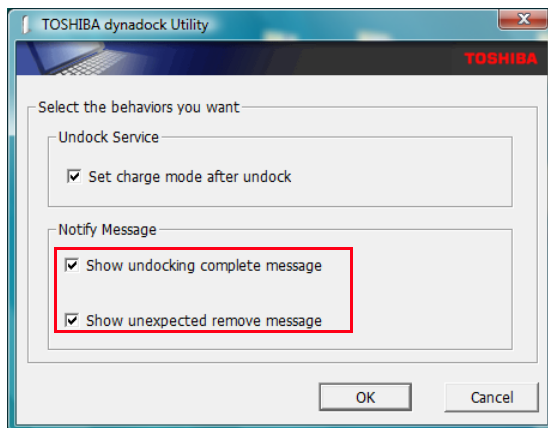
(Sample Image) charge mode screen

Notify Message Service

The Notify Message Service shows warning messages when you undock the dynadock.

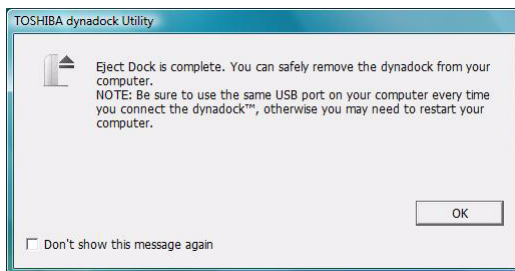
By default, the boxes are checked.

NOTE: TOSHIBA recommends that you do not uncheck these boxes. If the boxes are unchecked, there will be no warning messages if the dynadock is improperly ejected/disconnected.



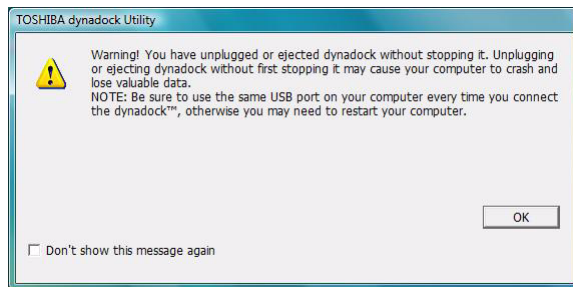
(Sample Image) Notify message service screen

“Show undocking complete message” option lets users see a dialog box like the following to announce that undocking is successful.



(Sample Image) Prompt message

“Show unexpected remove message” option lets users see a warning dialog box like the following when the user disconnects the USB dock directly.



(Sample Image) Warning message

Select Audio Device

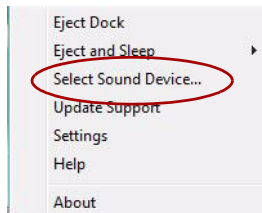
Once dynadock™ is installed, the sound on the notebook will be disabled, enabling you to connect external speakers. To re-enable sound through your notebook, please follow these steps:

1. Click or right-click the icon in the system tray/notification area.



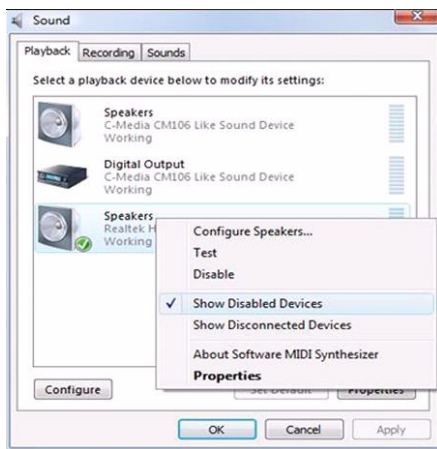
(Sample Image) system tray/notification screen

2. Select “**Select Sound Device**” from the menu.



(Sample Image) Select Sound Device screen

3. Change the **“Sound playback”** default device to other than **“3-USB Multi-Channel Audio Device”**.



Windows Vista®

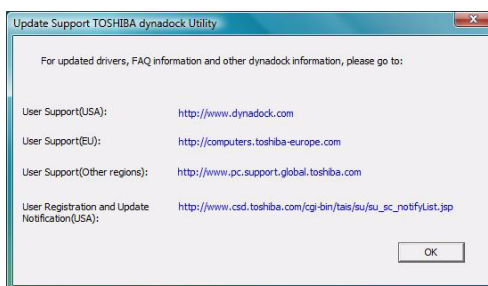


Windows® XP

(Sample Image) Change Sound Device screen

Select Update Support

Choose the “Update support” option. User can receive the update information from the e-mail used for registration. There would be a dialog to prompt user:



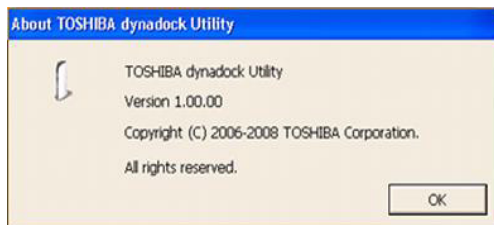
(Sample Image) Support information

Select Help

If you select “Help”, the online user manual opens.

Select About

If you select “About”, you will see the following information:



(Sample Image) About dynadock utility

Specifications

This section summarizes the dynadock's technical specifications.

Physical Dimensions

Weight	About 490g/17.2 ounces (including the Base)
Size	42 (w) x 77 (d) x 222 (h) mm/1.7" (w) x 3.0" (d) x 8.7" (h) (not including the parts that extend beyond the main body) 112.5 (w) x 130 (d) x 234 (h) mm/4.4" (w) x 5.2" (d) x 9.3" (h) (including the Base)

Environmental Requirements

Conditions	Ambient temperature	Relative humidity
Operating	5°C to 35°C (41°F to 95°F)	20% to 80%
Non-operating	-20°C to 65°C (-4°F to 149°F)	10% to 90%
Thermal Gradient	20°C per hour maximum	
Wet-bulb Temperature	26°C maximum	

Power Requirements

AC adaptor	100-240 volts AC 50-60 hertz (cycles per second)
	15V DC 3.0/4.0 amperes (different for each model)

General Specifications

Computer Interface	USB 2.0
Ports and Connectors	4 USB 2.0 ports in the back 2 USB 2.0 Powered ports in front 1 x S/PDIF (optical digital audio output) 1 x Ethernet Port (10/100 Base-T Ethernet RJ-45 connector) VGA x 1 (Analog D-SUB 15pin Female Connector) DVI-D x 1 (Digital 24-pin Female Connector) 1 x microphone (3.5 mm mono audio in) 1 x headphones (3.5 mm stereo audio out) 1 x line-out (3.5 mm stereo audio out) 1 x DC-in plug 1 x Cable Lock Slot
Supported Video Display Modes	Windows® XP: Mirror Desktop, Extended Desktop, Primary Display
*Depending on operating system	Windows Vista®: Mirror Desktop, Extended Desktop, Primary Display *Some built-in video adapters may prevent a second monitor from being the primary display.

*Specifications are subject to change without further notice.